

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	44	bidirectional adj power adj switch	US-PGPUB; USPAT	OR	ON	2006/07/20 10:35
L2	3541	solid adj state adj relay	US-PGPUB; USPAT	OR	ON	2006/07/20 10:35
L3	3587	common adj collector	US-PGPUB; USPAT	OR	ON	2006/07/20 10:35
L4	53	(L1 L2 L3) and (opto?coupler)	US-PGPUB; USPAT	OR	ON	2006/07/20 10:35
L5	28	(L1 L2 L3) and (control same opto?coupler)	US-PGPUB; USPAT	OR	ON	2006/07/20 10:35
S1	173	307/141.8.ccls.	US-PGPUB; USPAT	OR	ON	2006/07/17 16:41
S2	70	S1 and switches	US-PGPUB; USPAT	OR	ON	2006/07/17 16:42
S4	8	S2 and (EMI electromagnetic electro?magnetic)	US-PGPUB; USPAT	OR	ON	2006/07/17 16:44
S5	24	S1 and (switch same diode)	US-PGPUB; USPAT	OR	ON	2006/07/17 16:45
S6	171725	((relay switch transistor) same diode)	US-PGPUB; USPAT	OR	ON	2006/07/17 16:45
S7	81519	S6 and (control with (polarity voltage))	US-PGPUB; USPAT	OR	ON	2006/07/17 16:46
S8	12414	S7 and (EMI electromagnetic electro?magnetic)	US-PGPUB; USPAT	OR	ON	2006/07/17 16:46
S9	36	S8 and (AC! adj switch\$4 adj power)	US-PGPUB; USPAT	OR	ON	2006/07/17 17:31
S10	44	bidirectional adj power adj switch	US-PGPUB; USPAT	OR	ON	2006/07/17 18:00
S11	41	S10 and (control with switch)	US-PGPUB; USPAT	OR	ON	2006/07/17 18:01
S12	7	S10 and (control adj switch)	US-PGPUB; USPAT	OR	ON	2006/07/17 18:02
S13	240	AC! adj power adj switch	US-PGPUB; USPAT	OR	ON	2006/07/17 18:03
S14	1	("4717841").PN.	US-PGPUB; USPAT	OR	OFF	2006/07/17 18:03
S15	51	S13 and (control adj switch)	US-PGPUB; USPAT	OR	ON	2006/07/17 18:03
S16	1	("20040212940").PN.	US-PGPUB; USPAT	OR	OFF	2006/07/18 11:02
S17	1	("20040222701").PN.	US-PGPUB; USPAT	OR	OFF	2006/07/18 11:03

## EAST Search History

S18	20	kugelman.in.	US-PGPUB; USPAT	OR	ON	2006/07/18 11:03
S19	14	("4642751"   "5010471"   "5109185"   "5539632").PN. OR ("5892677").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 13:58
S20	0	EP-0194249-\$ did.	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 13:58
S21	2	EP-194249-\$ did.	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 13:58
S22	44	bidirectional adj power adj switch	US-PGPUB; USPAT	OR	ON	2006/07/18 14:14
S23	10	S22 and reactive	US-PGPUB; USPAT	OR	ON	2006/07/18 15:34
S24	0	S22 and (reactive adj load)	US-PGPUB; USPAT	OR	ON	2006/07/18 14:15
S25	44	bidirectional adj power adj switch	US-PGPUB; USPAT	OR	ON	2006/07/18 15:34
S26	18	S25 and enable	US-PGPUB; USPAT	OR	ON	2006/07/18 15:35
S27	0	S25 and (control near enable)	US-PGPUB; USPAT	OR	ON	2006/07/18 15:34
S28	170	(solid adj state adj relay) and reactive	US-PGPUB; USPAT	OR	ON	2006/07/18 15:36
S29	3540	(solid adj state adj relay)	US-PGPUB; USPAT	OR	ON	2006/07/18 15:36
S30	1743	S29 and diodes	US-PGPUB; USPAT	OR	ON	2006/07/18 15:36
S31	83	S30 and reactive	US-PGPUB; USPAT	OR	ON	2006/07/18 15:37
S32	3584	common adj collector	US-PGPUB; USPAT	OR	ON	2006/07/18 15:37
S33	789	S32 and (switch same diode)	US-PGPUB; USPAT	OR	ON	2006/07/18 15:37
S34	2	S33 and (opto?coupler)	US-PGPUB; USPAT	OR	ON	2006/07/18 15:38
S35	51	S33 and (reactive)	US-PGPUB; USPAT	OR	ON	2006/07/18 15:40
S36	5	S33 and (reactive near load)	US-PGPUB; USPAT	OR	ON	2006/07/18 15:43

## EAST Search History

S37	45	S33 and ((reactive inductive) near load)	US-PGPUB; USPAT	OR	ON	2006/07/18 15:43
S38	109	(S25 S32) and ((reactive inductive) near load)	US-PGPUB; USPAT	OR	ON	2006/07/19 11:24
S39	44	bidirectional adj power adj switch	US-PGPUB; USPAT	OR	ON	2006/07/19 11:24
S40	3	S39 and heater	US-PGPUB; USPAT	OR	ON	2006/07/19 11:25
S41	3540	solid adj state adj relay	US-PGPUB; USPAT	OR	ON	2006/07/19 11:25
S42	3584	common adj collector	US-PGPUB; USPAT	OR	ON	2006/07/19 11:26
S43	1159	(S39 S41 S42) and (((reactive inductive) adj load) heater)	US-PGPUB; USPAT	OR	ON	2006/07/20 10:35
S44	241	S43 and (switches same diodes)	US-PGPUB; USPAT	OR	ON	2006/07/19 11:29
S45	231	S44 and (control same (voltage current))	US-PGPUB; USPAT	OR	ON	2006/07/19 11:29
S46	206	S44 and (control with (voltage current))	US-PGPUB; USPAT	OR	ON	2006/07/19 11:29
S47	11	chang-jie.in.	US-PGPUB; USPAT	OR	ON	2006/07/19 13:36
S48	44	bidirectional adj power adj switch	US-PGPUB; USPAT	OR	ON	2006/07/19 13:53
S49	3540	solid adj state adj relay	US-PGPUB; USPAT	OR	ON	2006/07/19 13:53
S50	3584	common adj collector	US-PGPUB; USPAT	OR	ON	2006/07/19 13:53
S51	1016	(S48 S49 S50) and (control with (enable disable))	US-PGPUB; USPAT	OR	ON	2006/07/19 13:53
S52	55	(S48 S49 S50) and (control adj (enable disable))	US-PGPUB; USPAT	OR	ON	2006/07/19 16:28
S54	92	floating adj power adj source	US-PGPUB; USPAT	OR	ON	2006/07/19 16:31
S55	436	control with opto?coupler	US-PGPUB; USPAT	OR	ON	2006/07/19 16:31
S57	335	S55 same (enable signal power)	US-PGPUB; USPAT	OR	ON	2006/07/19 16:31
S58	19	S57 and ((semiconductor bidirectional) adj switches)	US-PGPUB; USPAT	OR	ON	2006/07/19 16:32

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L17	1	((solid adj state adj relay) same switches! and opto-coupler).clm.	US-PGPUB	OR	ON	2006/07/20 10:50
L18	0	((solid adj state adj relay) same (floating adj power adj source)).clm.	US-PGPUB	OR	ON	2006/07/20 10:50
L19	1	((solid adj state adj relay) and (floating adj power adj source)).clm.	US-PGPUB	OR	ON	2006/07/20 10:50